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Curriculum Vitae

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Education:

1985 University of Texas, Austin, TX, B.A./B.S., *summa cum laude* (English/Biology)
1991 Harvard University, Cambridge, MA, M.P.A. (Regulatory Policy)
1992 Harvard-MIT Division of Health Sci. & Technology, M.D., *cum laude*
1993 Massachusetts Institute of Technology, Ph.D. (Economics)

Clinical training:

1993-95 Resident in Internal Medicine, Department of Medicine, Brigham and Women's Hospital
1996 Diplomate, American Board of Internal Medicine

Employment:

1995-1999 Assistant Professor, Dept. of Economics and Dept. of Medicine, Stanford University
(on leave 1998-99)

2000- Associate Professor with tenure, Dept. of Economics and Dept. of Medicine, Stanford

1995- Attending Physician in Internal Medicine, Stanford Health Services

1998-1999 Deputy Assistant Secretary for Economic Policy, U.S. Department of the Treasury

1998- Director, Program on Health Outcomes Research, Stanford Center for Health Policy

1991-95 Research Associate, Harvard Medical School Dept. of Health Care Policy, Boston MA

1989-91 Consultant, The RAND Corporation, Santa Monica, CA

Affiliations:

Co-Principal Investigator, Health and Retirement Study
Associate Editor, *Journal of Health Economics*
Research Associate, National Bureau of Economic Research (Aging, Health Care,
Productivity, and Public Economics Programs)
Member, National Cancer Policy Board, National Academy of Sciences

Honors and Awards:

1985 Phi Beta Kappa

1988 John F. Kennedy Fellowship in Public Policy (Harvard University)

1992 Aesculapian Society (Harvard Medical School)

1993 FIRST Award, National Institute on Aging

1994 *Review of Economic Studies* Award, Outstanding Dissertation in Economics

1994 Finalist, National Academy of Social Insurance Dissertation Prize

1995 Finalist, Best Research Paper, Association for Health Services Research

1996 John M. Olin Faculty Research Fellowship

1997 Kenneth Arrow Award, Best Research Paper in Health Economics

1999 Career Development Award, National Institute on Aging

1999 Griliches Award, Best Empirical Paper in *Quarterly J. Econ/ J. Political Econ.*

2000 National Fellow, Hoover Institution

Publications

Articles:

1. "Appropriateness of medical care: A comparison of methods to set standards," with R.H. Brook, *Medical Care* 30: 565-586, July 1992.
2. "Does more intensive treatment of acute myocardial infarction reduce mortality?" with B.J. McNeil and J.P. Newhouse, *Journal of the American Medical Association* 272(11): 859-66, September 1994.
3. "Uncertainty, Health Care Technologies, and Health Care Choices," *American Economic Review Papers and Proceedings* 85(2): 38-44, May 1995.
4. "The uncertain demand for medical care," *Journal of Health Economics* 14(2): 239-242, June 1995.
5. "Do doctors practice defensive medicine?" with D.P. Kessler, *Quarterly Journal of Economics* 111(2): 353-90, May 1996.
6. "The marginal returns to technological change in health care," *Proceedings of the National Academy of Sciences*, 93(23):12701-08 (Nov 12, 1996).
7. "The marginal cost-effectiveness of medical technology: a panel instrumental-variables approach," with J.P. Newhouse, *Journal of Econometrics* 77(1): 39-64, March 1997.
8. "Hospital reimbursement incentives: an empirical analysis," *Journal of Economics and Management Strategy* 6(1): 91-128, Spring 1997.
9. "The effects of malpractice pressure and liability reforms on physicians' perceptions of medical care," with Daniel P. Kessler. *Journal of Law and Contemporary Problems* 60(1): 81-106, Winter 1997.
10. "The econometrics of outcomes research," with J.P. Newhouse, *Annual Review of Public Health* 19:17-34, 1998.
11. "Are medical prices declining? Evidence for heart attack treatments" with D.M. Cutler, J.P. Newhouse, and D. Remler, *Quarterly Journal of Economics* 113(4): 991-1024, November 1998.
12. "Technological change in heart-disease treatment: does high-tech mean low value?," with H. Noguchi, *American Economic Review Papers and Proceedings* 88(2): 90-96, May 1998.
13. "What has increased medical-care spending bought?," with D. Cutler and J. Newhouse, *American Economic Review Papers and Proceedings* 88(2): 132-136, May 1998.
14. "Risks and costs of end-stage renal disease after heart transplantation," with J. Hornberger, J. Geppert, and J. Best, *Transplantation* 66(12): 1763-70, December 1998.
15. "Medicare reform: Who pays, and who benefits?" with J.S. Skinner, *Health Affairs* 18(1): 48-62, January 1999.

16. "A global analysis of technological change in health care: Preliminary report from the TECH research network," with D.P. Kessler on behalf of the TECH Investigators, *Health Affairs* 18(3): 250-5, May 1999.
17. "Is hospital competition socially wasteful?" with D.P. Kessler, *Quarterly Journal of Economics*, forthcoming.
18. "How does managed care do it? Prices and productivity in managed care," with D.M. Cutler and J.P. Newhouse, *RAND Journal of Economics*, forthcoming.
19. "Designing a Medicare prescription drug benefit: Issues, opportunities, and challenges," with I. Spatz and S. Carney, *Health Affairs*, March 2000.
20. "Medicare reform: Fundamental problems, incremental steps," *Journal of Economic Perspectives*, Spring 2000.
21. "Does physician specialty affect survival of elderly patients with myocardial infarction?" with C.D. Frances, M.G. Shlipak, H. Noguchi, and P. Heidenreich, *Health Services Research*, December 2000, forthcoming.

Book:

A Global Analysis of Technological Change in Health Care: Heart Attacks, edited with D.P. Kessler, University of Michigan, forthcoming.

Book chapters:

1. "Medicare reimbursement and hospital cost growth," in D. Wise, ed., *Advances in the Economics of Aging*, University of Chicago Press, 1996.
2. "What is technological change?" with David Cutler, in D. Wise, ed., *Inquiries in the Economics of Aging*, University of Chicago Press, 1998.
3. "Insurance or self-insurance? Variation, persistence, and individual health accounts", with M. Eichner and D. Wise, in D. Wise, ed., *Inquiries in the Economics of Aging*, University of Chicago Press, 1998.
4. "Where does the money go? Medical expenditures in a large corporation," with D. Wise, in A. Garber, ed., *Issues in Health and Aging in the United States and Japan*, University of Chicago Press, forthcoming.
5. "Incitations et financement des hospitaux: le partage prospectif et retrospectif des couts," in S. Jacobzone, ed., *Economie de la Sante*, Paris: INSEE, 1998.

6. "The feasibility of medical savings accounts," with M.Eichner and D. Wise, in J. Poterba, ed., *Tax Policy and the Economy, Vol. 11*, MIT Press, 1997.
7. "Diagnosis and medical expenditures at the end of life," with A. Garber and T. MaCurdy, in D. Wise, ed., *Frontiers in the Economics of Aging*, University of Chicago Press, 1998.
8. "Health events, health insurance, and labor supply: evidence from the Health & Retirement Study," in D. Wise, ed., *Frontiers in the Economics of Aging*, University of Chicago Press, 1998.
9. "Persistence of medical expenditures among elderly beneficiaries," with A. Garber and T. MaCurdy, in A. Garber, ed., *Frontiers in Health Policy Research, Vol. 1*, MIT Press, 1998.
10. "The distributional effects of Medicare," with J. Lee and J.S. Skinner, in J. Poterba, ed., *Tax Policy and the Economy, Vol. 13*, 1999.
11. "The quality of for-profit and not-for-profit hospitals," with D. Staiger, in D. Cutler, ed., *Ownership in the Health Care Industry*, University of Chicago Press, forthcoming.
12. "Prices and productivity for heart disease," with D. Cutler, J. Newhouse, and D. Remler, in E. Berndt, ed., *Productivity Studies in Health Care*, University of Chicago Press, forthcoming.
13. "Productivity change in heart attack care, 1975 -1995: A literature review and synthesis," with P. Heidenreich, in E. Berndt, ed., *Productivity Studies in Health Care*, University of Chicago Press, forthcoming.
14. "Evaluating health care providers," with D. Staiger, in A. Garber, ed., *Frontiers in Health Policy Research, Vol. 2*, MIT Press, forthcoming.
15. "Biomedical research and then some: The causes of technological change in heart disease care," in K. Murphy and R. Topel, eds., *The Value of Biomedical Research*, Chicago: University of Chicago Press, forthcoming.

Papers submitted for publication:

1. "The incidence of Medicare," with J.S. Skinner.
2. "Treatment effect estimation with observational data: validity and interpretation," with H. Noguchi.
3. "The quality of health care providers," with D. Staiger.
4. "Are we inhibited? Renal insufficiency should not preclude the use of ACE inhibitors for patients with acute MI and depressed left ventricular function," with C.D. Frances, H. Noguchi, W. Browner, and B. Massie.
5. "Technological change in AMI care: cost and outcome consequences, 1975 -1995," with P. Heidenreich.

6. "Optimal Liability Policy in an Era of Managed Care," with D. Kessler.
7. "The marginal benefits of medical technology," with J.P. Newhouse.
8. "The determinants of technological change in heart attack treatment," with D. Cutler.
9. "The effects of hospital ownership on medical productivity," with D. Kessler.
10. "The relationship between intensive procedure use and patient outcomes in elderly patients with acute myocardial infarction in the United States and Canada, 1988 -1994," with L. Pilote, F. Lavoie, and O. Saynina, 1999.

Working Papers:

1. "Is More Information Better? The effects of health care 'report cards'," with D. Dranove, D. Kessler, and M. Satterthwaite, 2000.
2. "The economic consequences of health events," with T. Falba, 1999.
3. "Medical spending near the end of life: an update," with J. Geppert, 2000.
4. "The determinants of health," with V. Fuchs, 2000.
5. "Hospital quality, treatment effects, and health outcomes: the effects of differences in medical practices," with J. Geppert and D. Staiger, 2000.
6. "Understanding disability trends in the elderly: Disease prevention and disease management," with L. Yang, 2000.